```
============================================================
Sequence Listing was accepted.
If you need help call the Patent Electronic Business Center at (866)
217-9197 (toll free).
Reviewer: Durreshwar Anjum
Timestamp: Thu Oct 04 13:52:21 EDT 2007
============================================================
```

Application No: 10568533   Version No: 1.0

Input Set:

Output Set:

                    Started: 2007-09-21 13:09:20.039
                   Finished: 2007-09-21 13:09:21.651
                    Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 612 ms
            Total Warnings: 228
              Total Errors: 0
       No. of SeqIDs Defined: 228
          Actual SeqID Count: 228

Error code   Error Description

W   213   Artificial or Unknown found in <213> in SEQ ID (1)

W   213   Artificial or Unknown found in <213> in SEQ ID (2)

W   213   Artificial or Unknown found in <213> in SEQ ID (3)

W   213   Artificial or Unknown found in <213> in SEQ ID (4)

W   213   Artificial or Unknown found in <213> in SEQ ID (5)

W   213   Artificial or Unknown found in <213> in SEQ ID (6)

W   213   Artificial or Unknown found in <213> in SEQ ID (7)

W   213   Artificial or Unknown found in <213> in SEQ ID (8)

W   213   Artificial or Unknown found in <213> in SEQ ID (9)

W   213   Artificial or Unknown found in <213> in SEQ ID (10)

W   213   Artificial or Unknown found in <213> in SEQ ID (11)

W   213   Artificial or Unknown found in <213> in SEQ ID (12)

W   213   Artificial or Unknown found in <213> in SEQ ID (13)

W   213   Artificial or Unknown found in <213> in SEQ ID (14)

W   213   Artificial or Unknown found in <213> in SEQ ID (15)

W   213   Artificial or Unknown found in <213> in SEQ ID (16)

W   213   Artificial or Unknown found in <213> in SEQ ID (17)

W   213   Artificial or Unknown found in <213> in SEQ ID (18)

W   213   Artificial or Unknown found in <213> in SEQ ID (19)

W   213   Artificial or Unknown found in <213> in SEQ ID (20)

```
         Input Set:


         Output Set:



           Started:   2007-09-21 13:09:20.039
          Finished:   2007-09-21 13:09:21.651
           Elapsed:   0 hr(s) 0 min(s) 1 sec(s) 612 ms
    Total Warnings:   228
      Total Errors:   0
No. of SeqIDs Defined:   228
 Actual SeqID Count:   228
```

Error code   Error Description

```
         This error has occured more than 20 times, will not be displayed
```

<110>   ESUMI, Mariko
        TAKAYAMA, Tadatoshi
        TAKAGI, Keiko

<120>   HEPATOCELLULAR CARCINOMA-ASSOCIATED GENE

<130>   4456-0108PUS1

<140>   10568533
<141>   2007-09-21

<150>   PCT/JP04/12425
<151>   2004-08-23

<150>   JP 2003-299363
<151>   2003-08-22

<150>   JP 2003-334444
<151>   2003-09-25

<160>   228

<170>   PatentIn version 3.2

<210>   1
<211>   20
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   synthetic DNA

<400>   1
agactgtcag tactgggagc   20

<210>   2
<211>   20
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   synthetic DNA

<400>   2
gtccaggacc cttcttatcc   20

<210>   3
<211>   20
<212>   DNA
<213>   Artificial Sequence

<220>

<400>   3
gacgtgggaa gacgtttcca   20

<210>   4
<211>   20
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   synthetic DNA

<400>   4
tggatgatgc ccgtctcctt   20

<210>   5
<211>   20
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   synthetic DNA

<400>   5
aattgcccag ggatgaggca   20

<210>   6
<211>   20
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   synthetic DNA

<400>   6
tggactcctg gatcttcctc   20

<210>   7
<211>   20
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   synthetic DNA

<400>   7
gagaactcag ctgcagtgca   20

<210>   8
<211>   20
<212>   DNA

<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 8
ttctagctgg gccgctaact   20

<210> 9
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 9
gacgtgcaga aatggcacct   20

<210> 10
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 10
cagtcacacg gcagatggtt   20

<210> 11
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 11
cctgcatcag caccaaccaa   20

<210> 12
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 12
tggctgacct gtttctccca   20

<210> 13
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 13
ccacatccac cactagacac   20

<210> 14
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 14
tgacagatgt cctctgaggc   20

<210> 15
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 15
cctcttcacc aggtatcctg   20

<210> 16
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 16
ccacagtgtc cttgggaatg   20

<210> 17
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 17

gctgaagcag atgcaggaca   20

<210> 18
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 18
ctaacgagct gacggagttg   20

<210> 19
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 19
ggaggttcga agacgatcag   20

<210> 20
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 20
gtggtgccct tccgtcaatt   20

<210> 21
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 21
agactgtcag tactgggagc   20

<210> 22
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> synthetic DNA

<400> 22
gtccaggacc cttcttatcc   20

<210> 23
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 23
gtgtggccaa ctgtgtcatc   20

<210> 24
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 24
cttcagacgg tggatggagt   20

<210> 25
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 25
aattgcccag ggatgaggca   20

<210> 26
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 26
tggactcctg gatcttcctc   20

<210> 27
<211> 20
<212> DNA

<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 27
aacaagctgg ctggaaagaa   20

<210> 28
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 28
gtacacgaag gtgctgctca   20

<210> 29
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 29
gacgtgcaga aatggcacct   20

<210> 30
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 30
cagtcacacg gcagatggtt   20

<210> 31
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 31
cctgcatcag caccaaccaa   20

<210> 32
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 32
tggctgacct gtttctccca   20

<210> 33
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 33
tgggcaagtg aggtcttctt   20

<210> 34
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 34
ctgaggatca ctggtatcgc   20

<210> 35
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 35
gacccccagt ctcaatctca   20

<210> 36
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 36

agtctcttgg cgtcgtcagt   20

<210> 37
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 37
gctgaagcag atgcaggaca   20

<210> 38
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 38
ctaacgagct gacggagttg   20

<210> 39
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 39
ggtcggagtc aacggatttg   20

<210> 40
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 40
ggatctcgct cctggaagat   20

<210> 41
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> synthetic DNA

<400> 41
caaagcatgg gcagtagctc   20

<210> 42
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 42
caagcagatc tccatggcag   20

<210> 43
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 43
tcttcaaccc cgatgtgcca   20

<210> 44
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 44
aggctggtcg gaatggactt   20

<210> 45
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 45
cttggaagtc tcctcttggc   20

<210> 46
<211> 20
<212> DNA

<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 46
atgaacaggt cctcccgctt   20

<210> 47
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 47
accatcatca ccaagcgtcg   20

<210> 48
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 48
tcacctcgtc cttggtgaag   20

<210> 49
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 49
gtcgcctcac catctgtaca   20

<210> 50
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 50
ctggaggaca gctgccaata   20

<210> 51
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 51
tcctagaagg caaggatgcc   20

<210> 52
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 52
gtgggtttcc tgtccatagg   20

<210> 53
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 53
aacaggccat ggatctggtg   20

<210> 54
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 54
aggactggaa cttctccagc   20

<210> 55
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 55

aggataacca tgtggtggcc   20

<210> 56
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 56
tgcagctcct ctggcttgaa   20

<210> 57
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 57
gctggaactt caacagggac   20

<210> 58
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 58
ctgaggatca ctggtatcgc   20

<210> 59
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 59
tgaagctcaa ctgcgagcag   20

<210> 60
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223>   synthetic DNA

<400>   60
acgattggct cttactgcgc   20

<210>   61
<211>   20
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   synthetic DNA

<400>   61
acacagagct ctgagtcagc   20

<210>   62
<211>   20
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   synthetic DNA

<400>   62
tccaggttag gagggaagac   20

<210>   63
<211>   20
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   synthetic DNA

<400>   63
cctcaaggtc ttcctccttc   20

<210>   64
<211>   20
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   synthetic DNA

<400>   64
caccaggtac tctggtaagc   20

<210>   65
<211>   20
<212>   DNA

<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 65
caaagcatgg gcagtagctc   20

<210> 66
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 66
caagcagatc tccatggcag   20

<210> 67
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 67
tcttcaaccc cgatgtgcca   20

<210> 68
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 68
aggctggtcg gaatggactt   20

<210> 69
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 69
cttggaagtc tcctcttggc   20

<210> 70
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 70
atgaacaggt cctcccgctt   20

<210> 71
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 71
gacgtgaaga aggagccact   20

<210> 72
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 72
cgccatccag tacagatcct   20

<210> 73
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 73
tgccatagtg gcttgatttg   20

<210> 74
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 74

tcagaatccc catcatcaca   20

<210>   75
<211>   20
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   synthetic DNA

<400>   75
cagggcaaag tggttcaagt   20

<210>   76
<211>   20
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   synthetic DNA

<400>   76
tctcagtggg tttcctgtcc   20

<210>   77
<211>   20
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   synthetic DNA

<400>   77
aacaggccat ggatctggtg   20

<210>   78
<211>   20
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   synthetic DNA

<400>   78
aggactggaa cttctccagc   20

<210>   79
<211>   20
<212>   DNA
<213>   Artificial Sequence

<220>

<223> synthetic DNA

<400> 79
aactacgcag ccttggtcag   20

<210> 80
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 80
tggcagttga gttgggtaaa   20

<210> 81
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 81
gctggaactt caacagggac   20

<210> 82
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 82
ctgaggatca ctggtatcgc   20

<210> 83
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 83
ccactcggac agcttcttct   20

<210> 84
<211> 20
<212> DNA

<210> Artificial Sequence

<220>
<223> synthetic DNA

<400> 84
ggatggtctc gtggatgttc   20

<210> 85
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 85
acacagagct ctgagtcagc   20

<210> 86
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 86
tccaggttag gagggaagac   20

<210> 87
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 87
cctcaaggtc ttcctccttc   20

<210> 88
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 88
caccaggtac tctggtaagc   20

```
<210>  89
<211>  19
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  synthetic DNA

<400>  89
ctgttggtca gccagcagt                                              19


<210>  90
<211>  20
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  synthetic DNA

<400>  90
gaaagccccg aagtaagacc                                             20


<210>  91
<211>  20
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  synthetic DNA

<400>  91
caaggaccgg ttcatttggc                                             20


<210>  92
<211>  20
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  synthetic DNA

<400>  92
gaacacagcc ttctcctcct                                             20


<210>  93
<211>  20
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  synthetic DNA

<400>  93
```

tgctcggggg aactatgatg   20

<210> 94
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 94
ggcctgtgag tctctggata   20

<210> 95
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic DNA

<400> 95
ggaagagtgg agagtactgg